

APPROVAL SHEET

PCB ANTENNA

**2.4~2.5 / 5.15~5.85 / 5.925~7.125 GHz Working
Frequency**

Halogens Free Product

P/N: RFPCA573205SBLB301

Customer :

Customer 's Part No. :

Production : PCB Antenna

Address : No.11,Ke-Yist.,Chunan,Miaoli,
Taiwan 35059, R.O.C

TEL : +886-37-585-555

品名：RFPCA573205SBLB301

History List

[illegible]

品名：RFPCA573205SBLB301

1. Explanation of part number：

RF	PCA	5732	05	S	B	L	B	3	01
Type Code	Product Code	PCB Dimension (Unit: mm)	Cable Length (unit: cm)	Connector Brand	Type of Connector	Application	Project status	Wire Diameter	Project
RF Device	PCB Antenna	Per 2 digits of length, width e.g.: 3205 Length 32mm, Width 5mm	2 digits for cable length e.g.: 08 Length 8cm	A: N C: MCX D: IPEX III E: IPEX IV F: IPEX A13 H: Hirose I: IPEX M: MMCX S: SMA T: TNC U: MURATA N: None	A: Reverse Female B: Reverse Male F: Female M: Male N: None	0: 0GHz 3: 3GHz 5: 5GHz 6: 6GHz A: 2.4GHz ISM band B: GSM 900/1800 dual band G: GPS band L: 2.4/5.2/5.8 GHz tri-band R: 902~928 MHz N: NFC T: LTE band W: WCDMA band	B: MP T: During Test X: Pile Run	0: None 1: $\varnothing$ 0.81 2: $\varnothing$ 1.32 3: $\varnothing$ 1.13 4: Low Loss $\varnothing$ 1.13 5: $\varnothing$ 0.5 6: RG316 7: $\varnothing$ 1.37 8: RG178 9: Low Loss $\varnothing$ 1.37	01~99 series number

2. Electrical Specification：

Item	Specification
Working Frequency Range	2.4~2.5 / 5.15~5.85 / 5.925~7.125 GHz
Return Loss	-10 dB(Max)
VSWR	2 max.
Peak Gain	2.2 dBi@ ANT1_2.4 GHz 3.29 dBi@ ANT1_5.15~5.895 GHz 4.19 dBi@ ANT1_5.925~6.425 GHz 3.99 dBi@ ANT1_6.425~6.525 GHz 4.18 dBi@ ANT1_6.525~6.875 GHz 3.9 dBi@ ANT1_6.875~7.125 GHz 1.85 dBi@ ANT2_2.4 GHz 3.4 dBi@ ANT2_5.15~5.895 GHz 3.95 dBi@ ANT2_5.925~6.425 GHz 3.91 dBi@ ANT2_6.425~6.525 GHz 4.18 dBi@ ANT2_6.525~6.875 GHz 4.01 dBi@ ANT2_6.875~7.125 GHz
Cable Loss	0.475@2.4G 0.925@5G 0.945@5.825~6.425GHz 0.975@6.425~6.525GHz 0.985@6.425~6.875GHz 0.995@6.875~7.125GHz
Impedance	50 Ohm Nominal
Antenna Type	PIFA
Polarization	Linear Vertical

UNLESS OTHER SPECIFIED TOLERANCES ON：
X=N/A X.X=N/A X.XX=N/A
ANGLES=N/A HOLEDIA=N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE：N/A

UNIT：mm

DRAWN BY：劉采璇

CHECKED BY：詹惠雯

DESIGNED BY：黃瑞郎

APPROVED BY：陳振榮

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DOCUMENT NO.

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SPEC REV.
A0

Operation Temperature	-20° C~+65° C
Connector Type	Reverse SMA Plug
Cable Length (mm)	55mm

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

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DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

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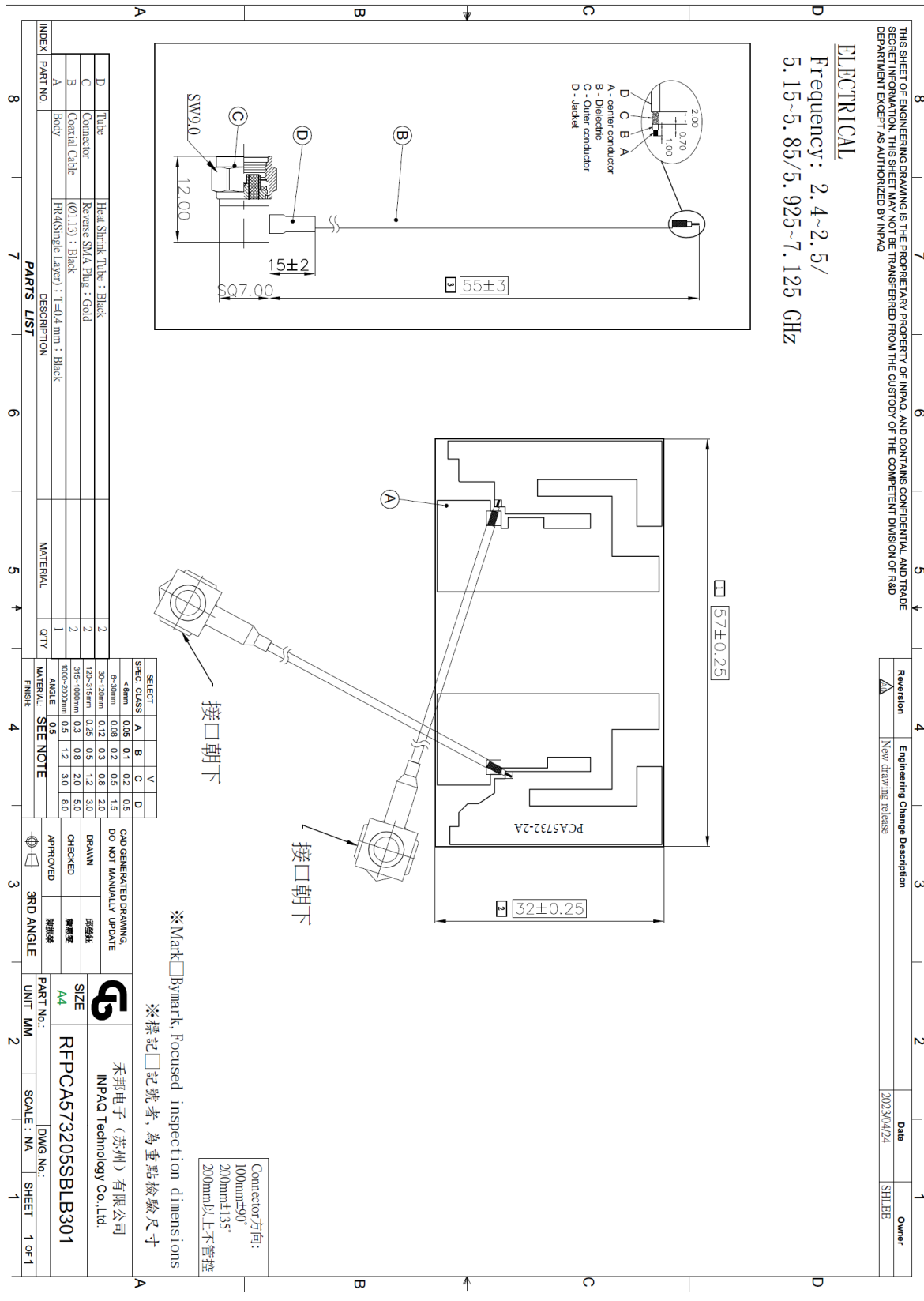
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DOCUMENT
NO.

ENS070030530-000803600015

SPEC REV.
A0

3. Antenna Drawing :



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠愛

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

TITLE : RFPCA573205SBLB301



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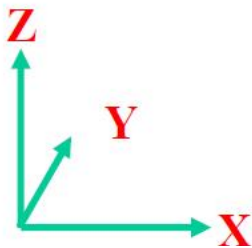
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SPEC REV.
A0

4. Performance Report :

Test Report

■ ELECTRICAL CHARACTERISTICS



UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

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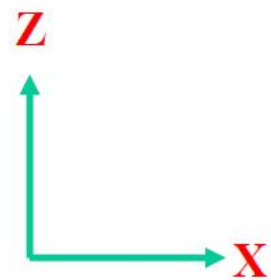
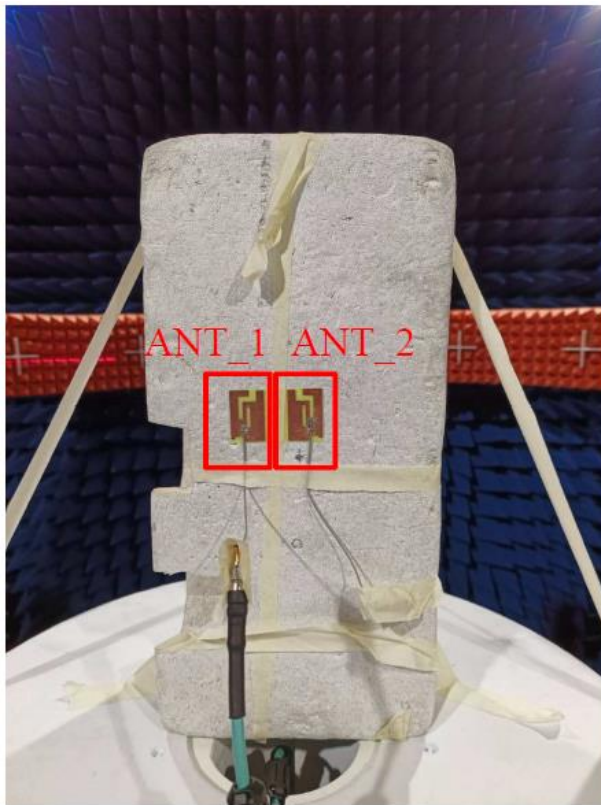
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DOCUMENT
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SPEC REV.
A0

■ Antenna Solution Detail



UNLESS OTHER SPECIFIED TOLERANCES ON :
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ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

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DESIGNED BY : 黃瑞郎

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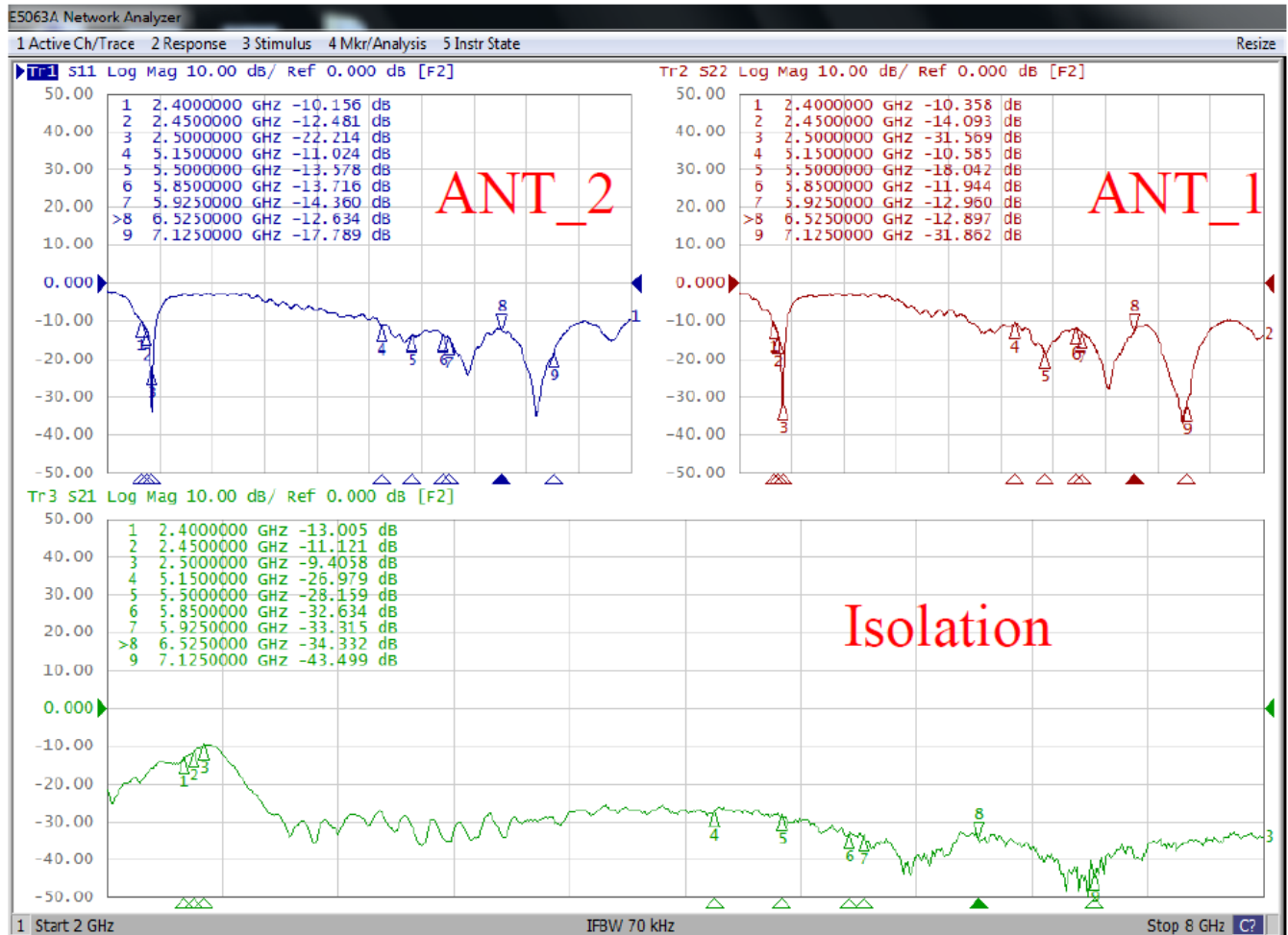
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SPEC REV.
A0

ELECTRICAL CHARACTERISTICS

Return Loss & Isolation



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



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UNIT : mm

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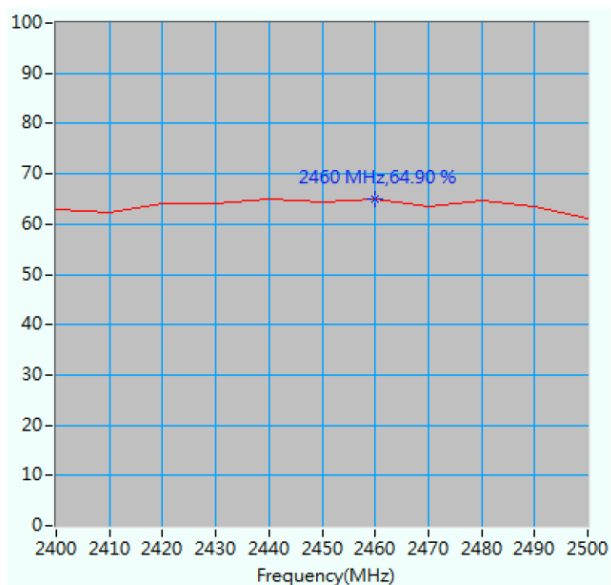
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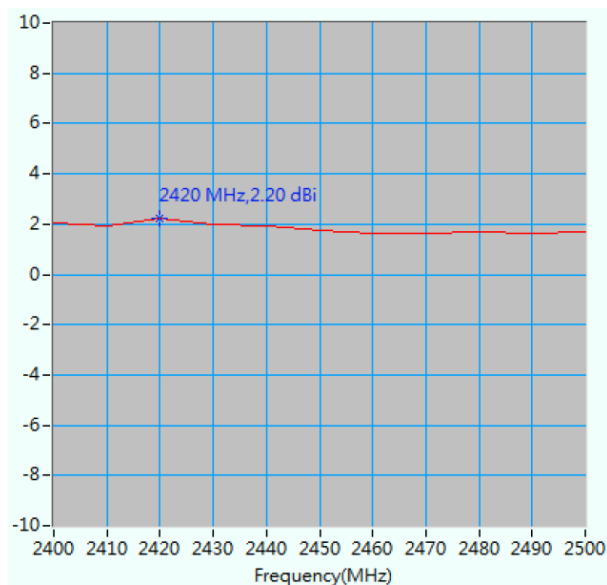
SPEC REV.
A0

■ Efficiency & Peak Gain

ANT1_2G

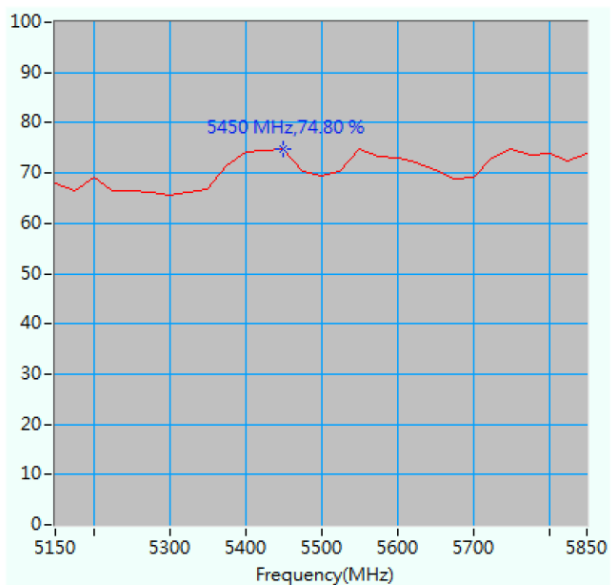


Maximum Efficiency at 2460 MHz : 64.90 %

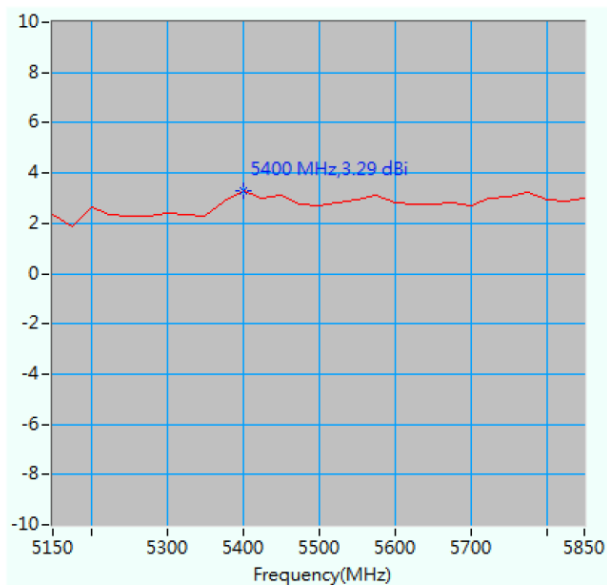


Maximum Peak Gain at 2420 MHz : 2.20 dBi

ANT1_5G



Maximum Efficiency at 5450 MHz : 74.80 %



Maximum Peak Gain at 5400 MHz : 3.29 dBi

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

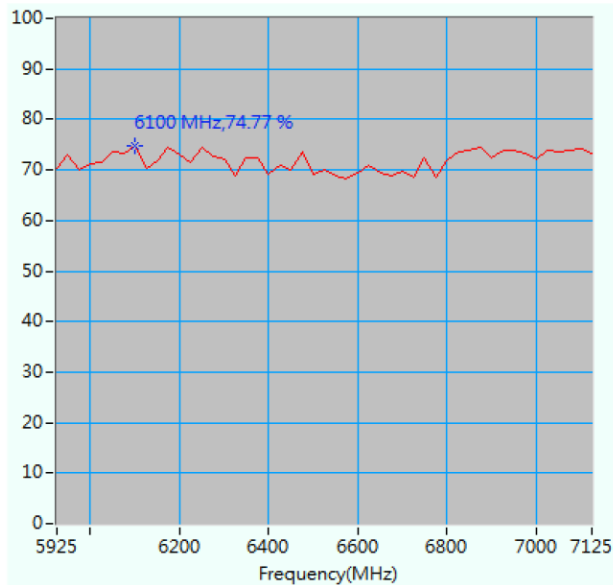
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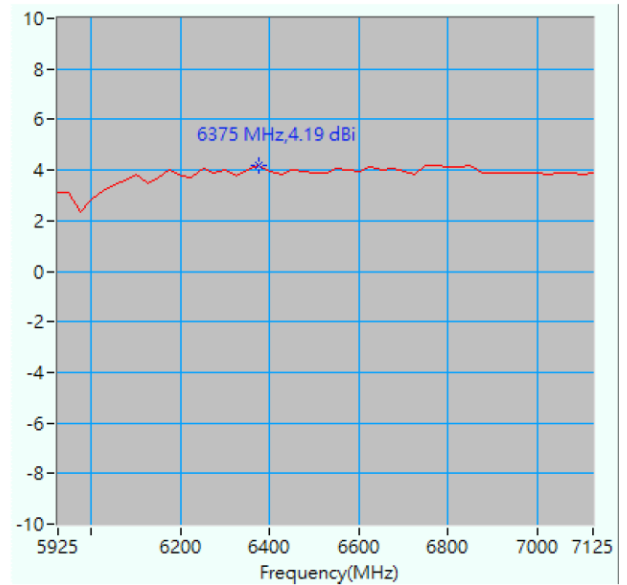
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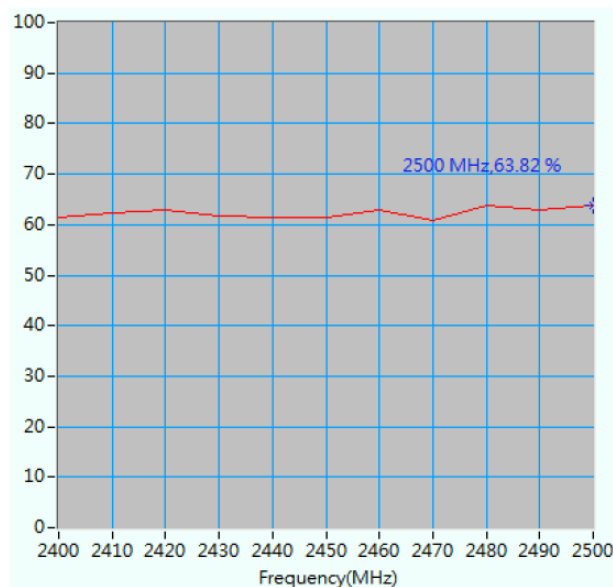
SPEC REV.
A0

ANT1_6G

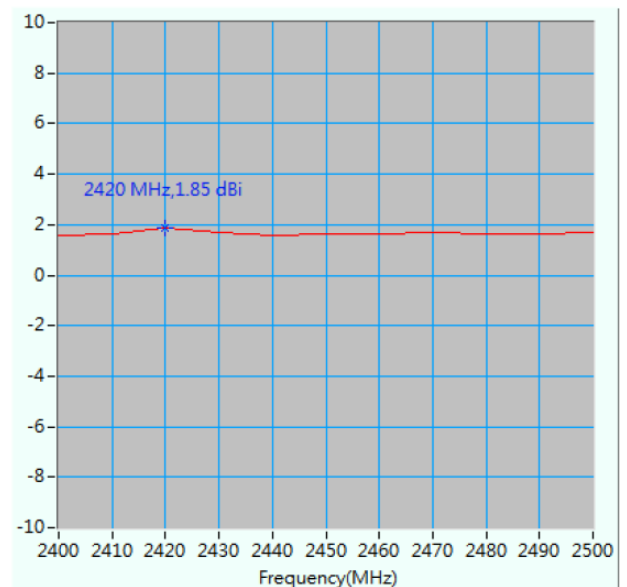
Maximum Efficiency at 6100 MHz : 74.77 %



Maximum Peak Gain at 6375 MHz : 4.19 dBi

ANT2_2G

Maximum Efficiency at 2500 MHz : 63.82 %



Maximum Peak Gain at 2420 MHz : 1.85 dBi

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A

**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/A

UNIT : mm

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CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

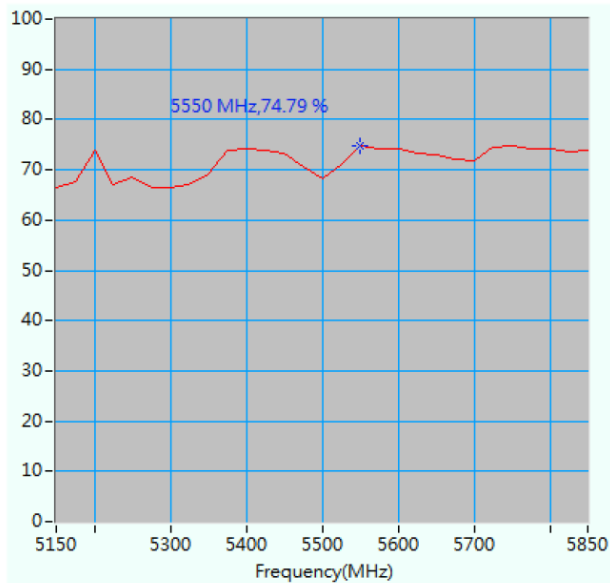
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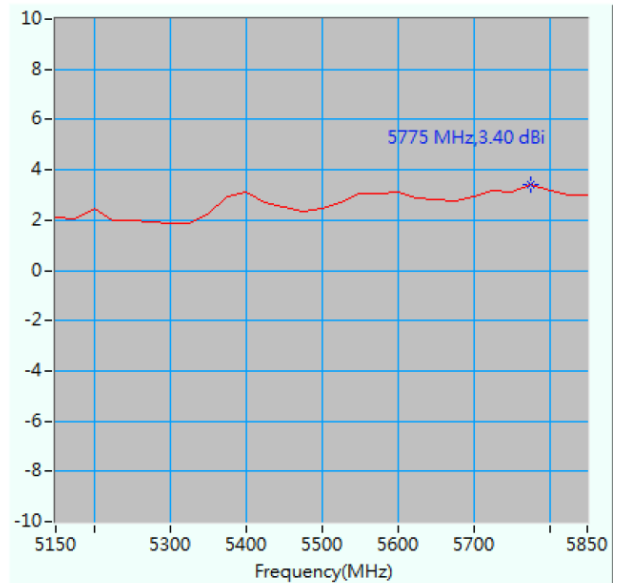
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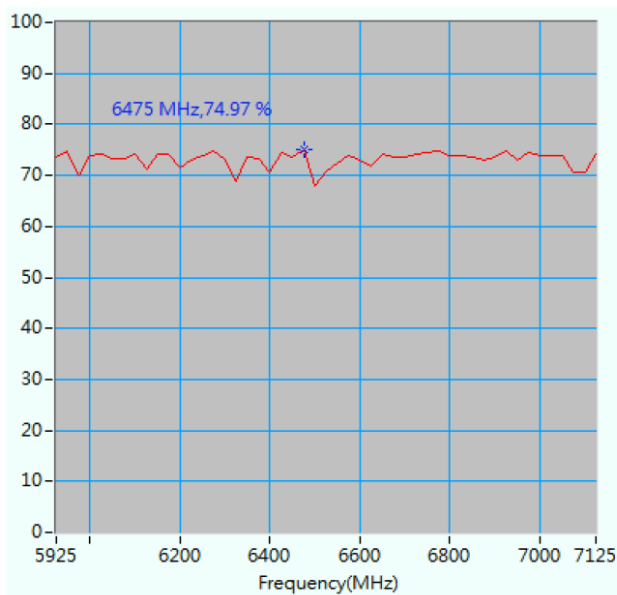
SPEC REV.
A0

ANT2_5G

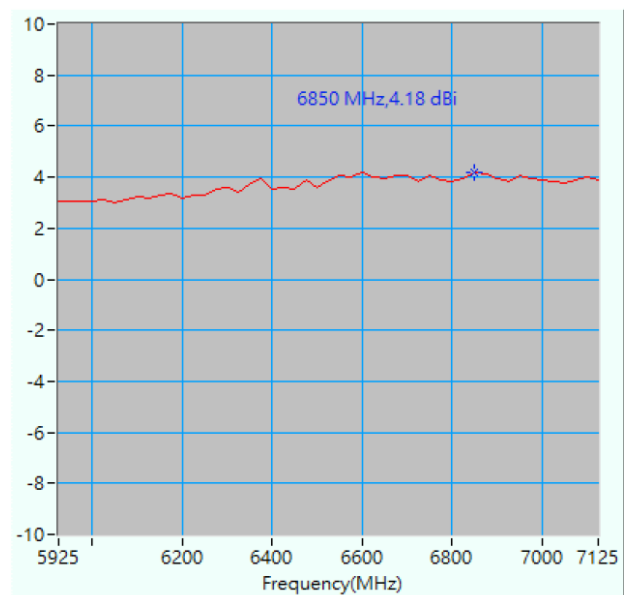
Maximum Efficiency at 5550 MHz : 74.79 %



Maximum Peak Gain at 5775 MHz : 3.40 dBi

ANT2_6G

Maximum Efficiency at 6475 MHz : 74.96 %



Maximum Peak Gain at 6850 MHz : 4.18 dBi

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = N/A X.X = N/A X.XX = N/A

ANGLES = N/A HOLEDIA = N/A

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠雯

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SPEC. REV.
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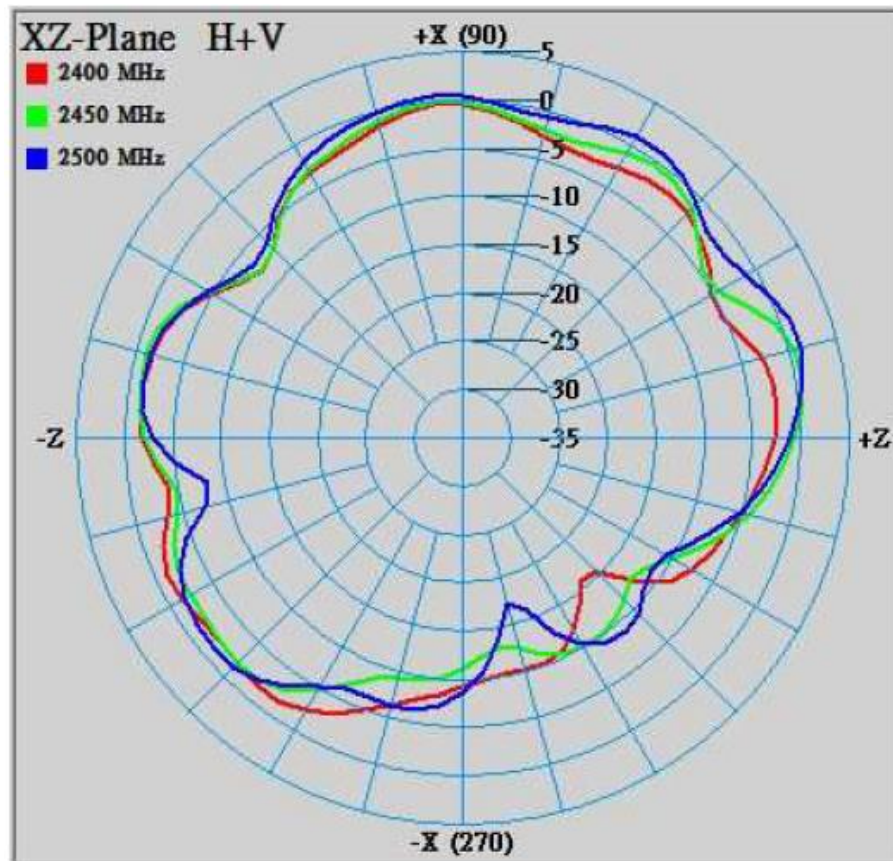
Radiation Patterns

ANT1_2G

X-Z Plane

Phi=0.00deg

Gain . dBi



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

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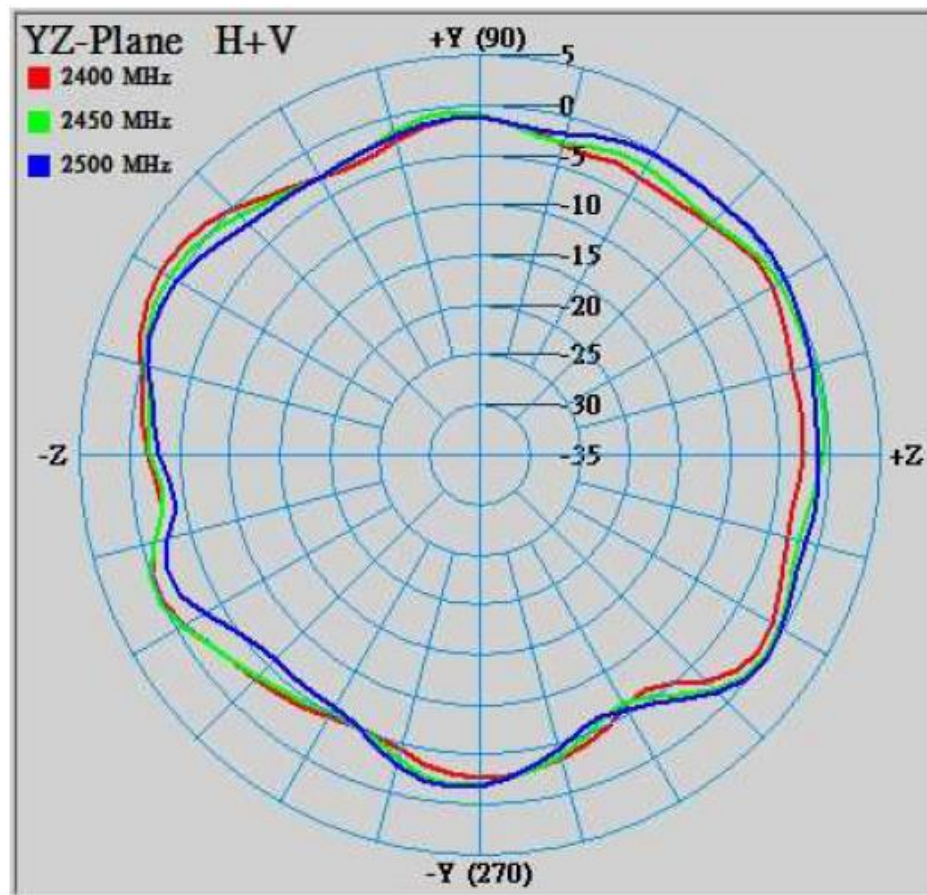
ENS070030530-000803600015

SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dBi



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



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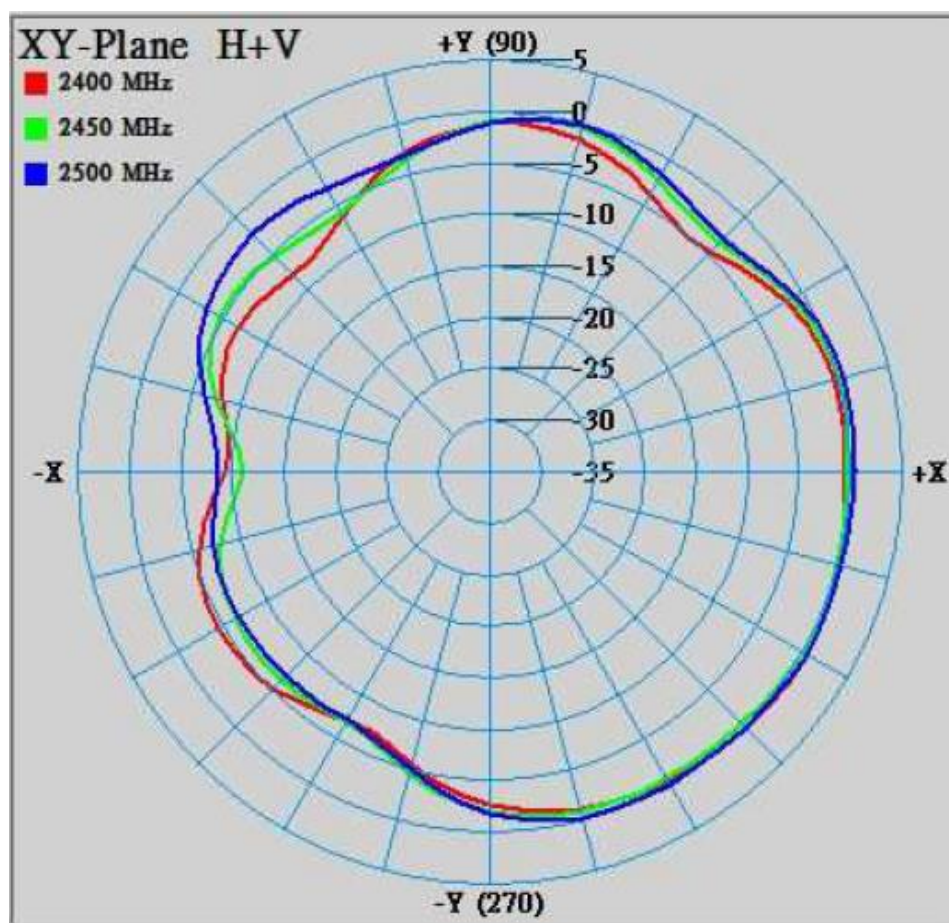
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-0.27	-3.66	1.72	-2.05	0.59	-2.72
2450	0.81	-3.24	0.84	-1.71	0.16	-2.54
2500	1.17	-2.63	0.36	-1.82	0.52	-2.02

UNLESS OTHER SPECIFIED TOLERANCES ON :
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 ANGLES = N/A HOLEDIA = N/A



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SCALE : N/A

UNIT : mm

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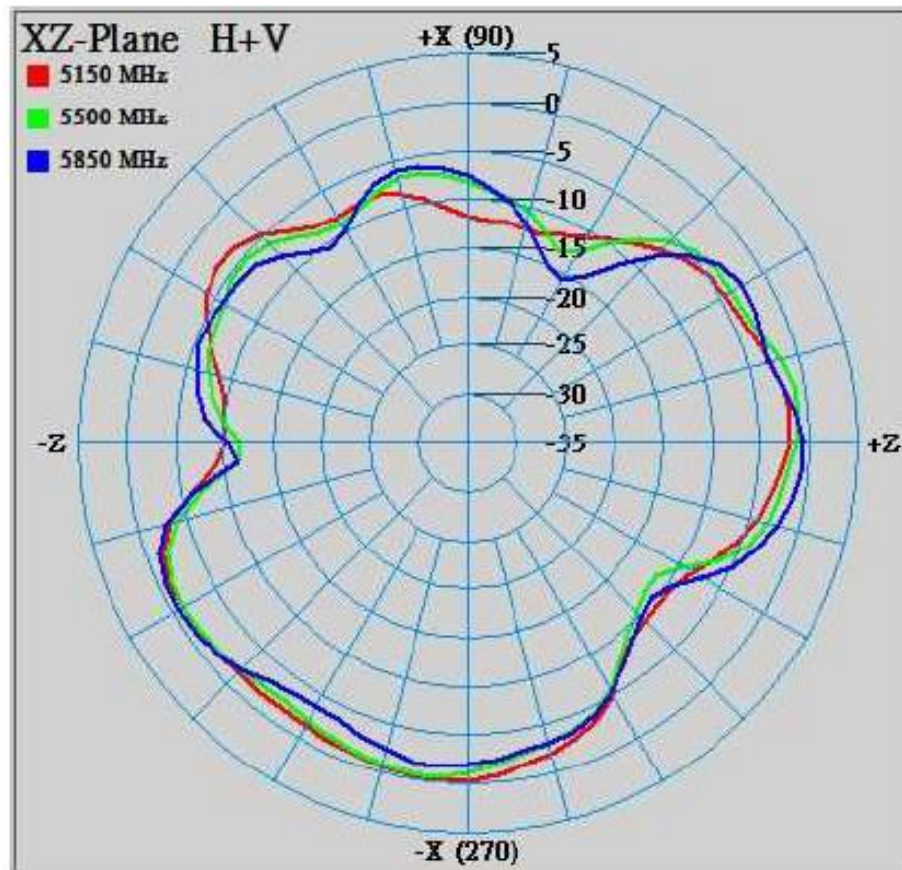
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SPEC REV.
A0

ANT1_5G**X-Z Plane****Phi=0.00deg****Gain . dBi**

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A

**INPAQ TECHNOLOGY CO., LTD.****SCALE : N/A****UNIT : mm****DRAWN BY : 劉采璇****CHECKED BY : 詹惠雯****DESIGNED BY : 黃瑞郎****APPROVED BY : 陳振榮**

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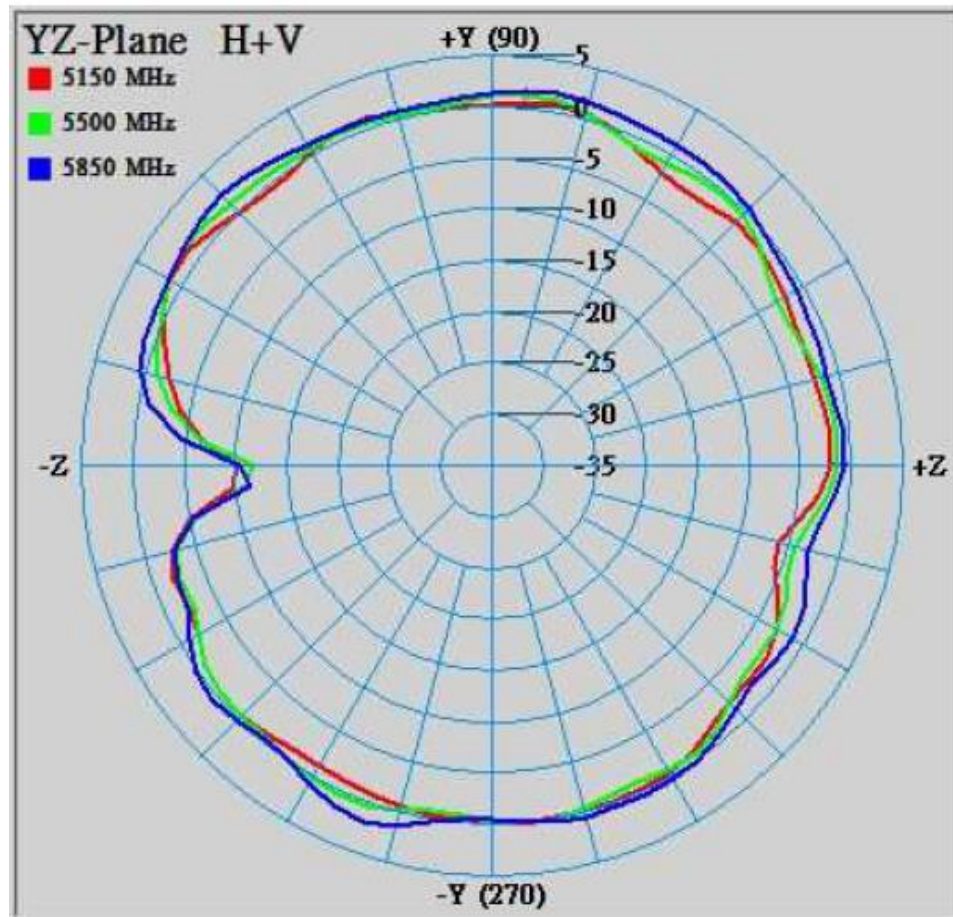
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**SPEC REV.
A0**

Y-Z Plane

Phi=90.00deg

Gain . dBi



UNLESS OTHER SPECIFIED TOLERANCES ON :
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ANGLES = N/A HOLEDIA = N/A



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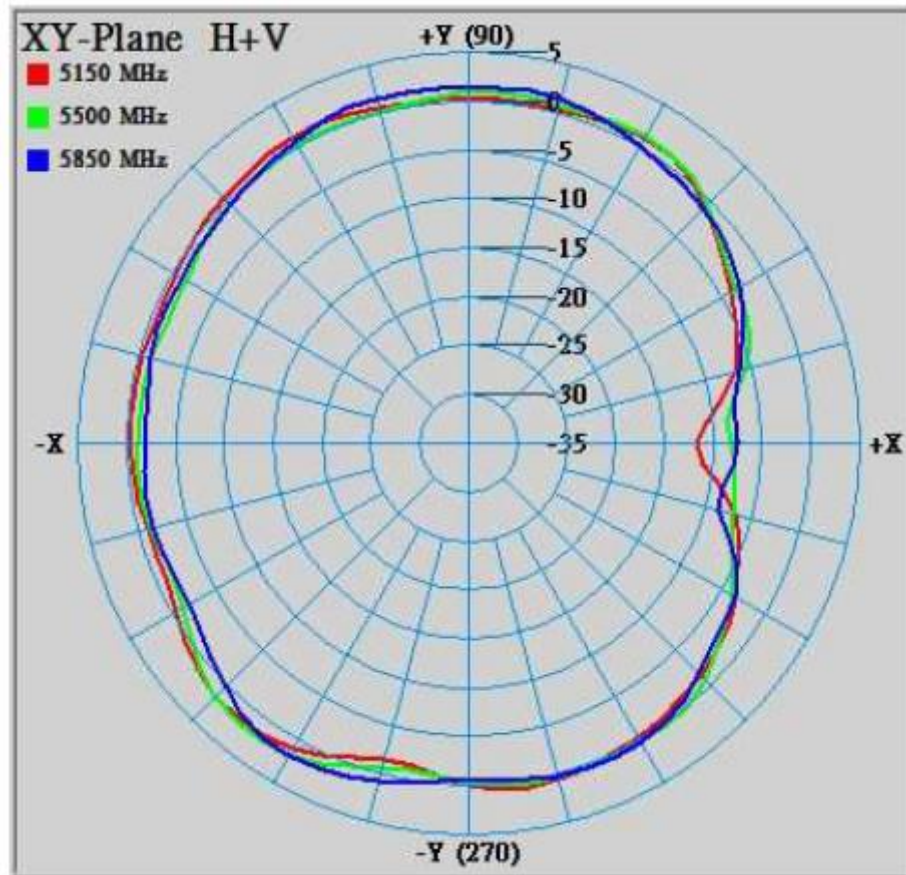
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dBi



	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	-0.15	-4.20	1.38	-1.16	1.72	-0.64
5500	-0.52	-4.36	1.70	-0.87	2.17	-0.71
5850	-0.71	-4.41	2.25	0.03	1.80	-0.71

UNLESS OTHER SPECIFIED TOLERANCES ON :
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ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

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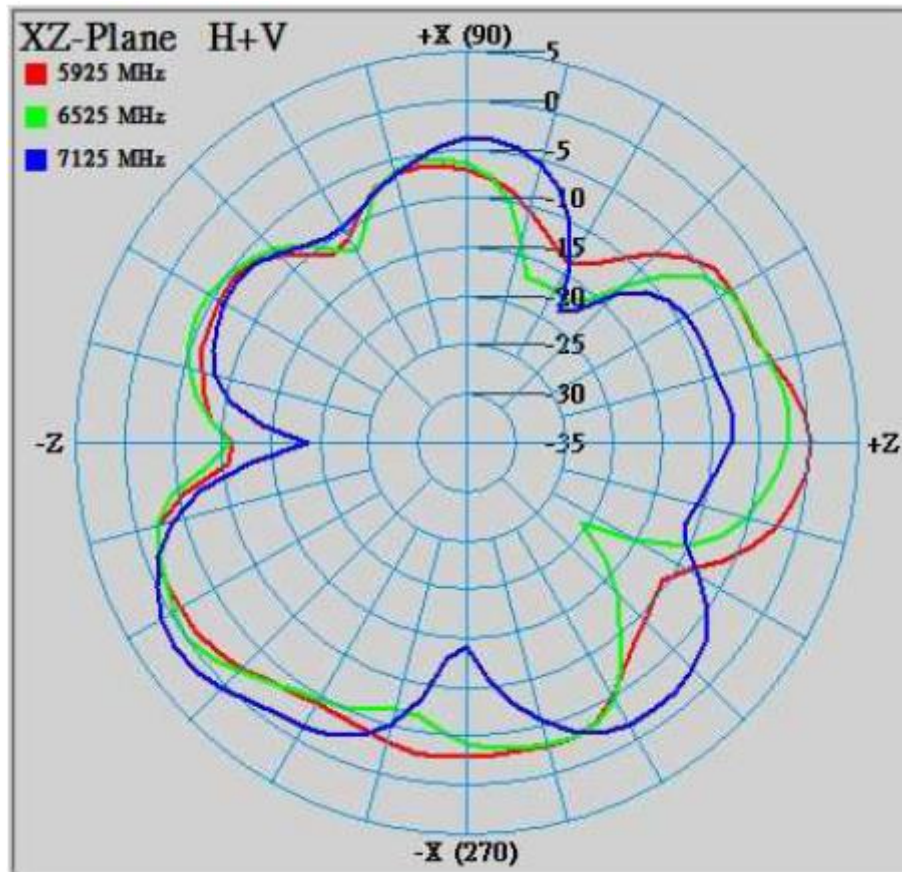
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SPEC REV.
A0

ANT1_6G**X-Z Plane****Phi=0.00deg****Gain . dBi**

UNLESS OTHER SPECIFIED TOLERANCES ON :
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**INPAQ TECHNOLOGY CO., LTD.****SCALE : N/A****UNIT : mm****DRAWN BY : 劉采璇****CHECKED BY : 詹惠雯****DESIGNED BY : 黃瑞郎****APPROVED BY : 陳振榮**

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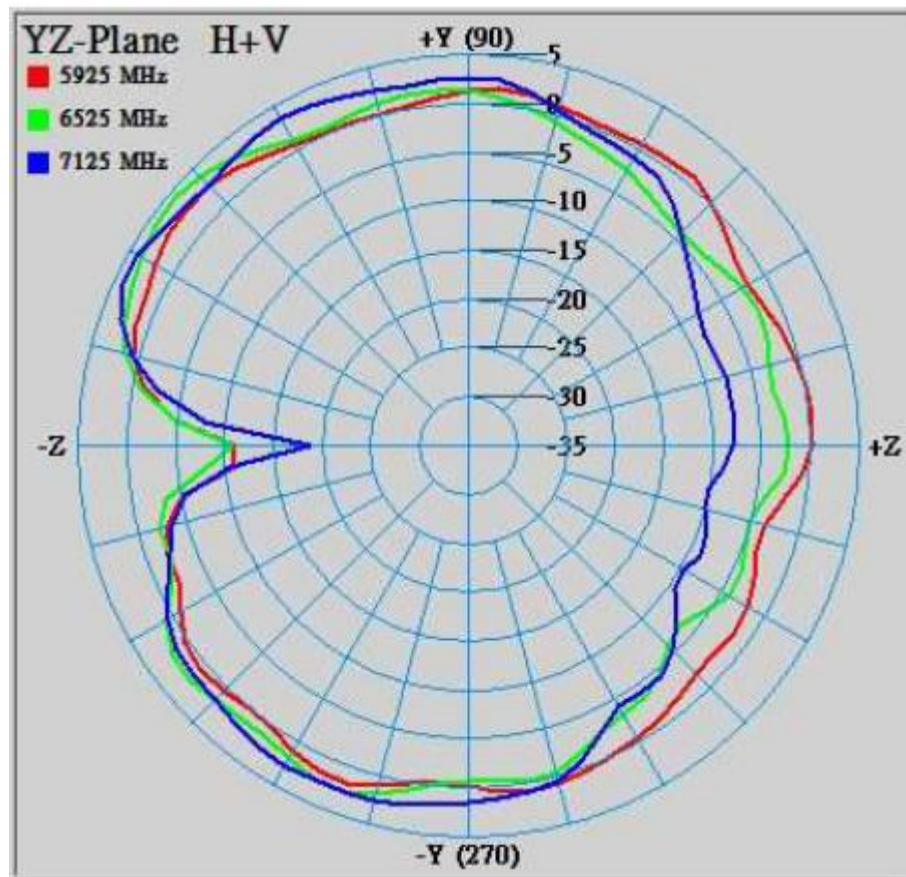
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**SPEC REV.
A0**

Y-Z Plane

Phi=90.00deg

Gain . dBi



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TITLE : RFPCA573205SBLB301

DOCUMENT
NO.

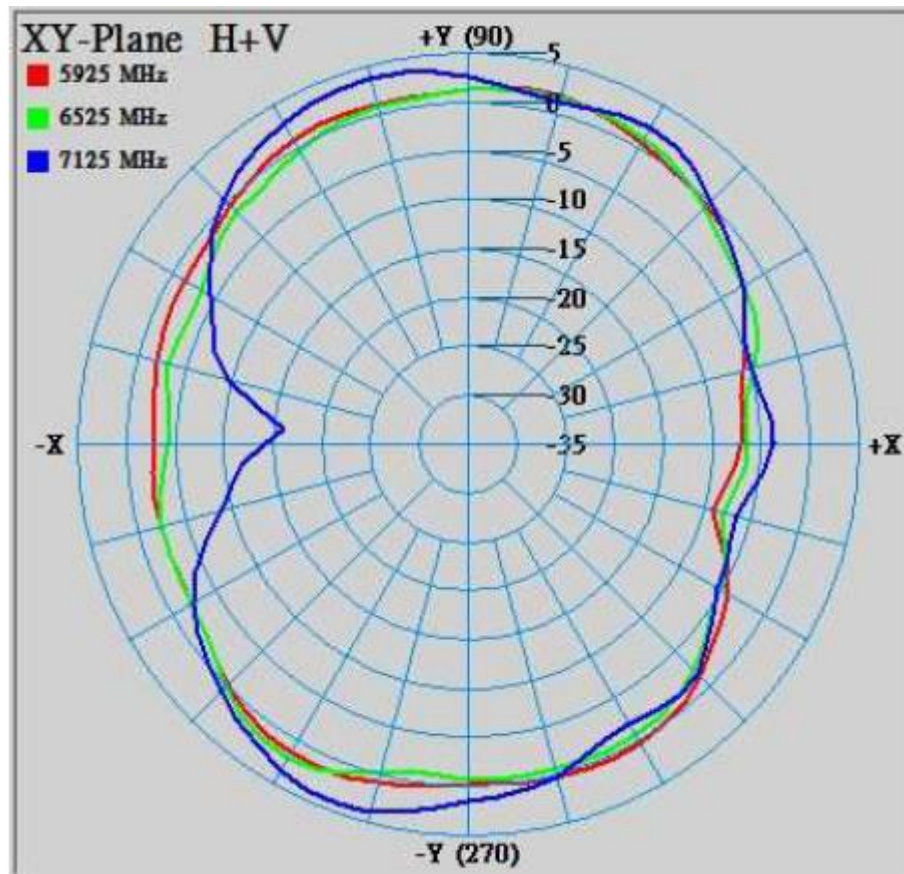
ENS070030530-000803600015

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5925	0.08	-4.55	2.69	-0.06	1.88	-0.77
6525	-1.08	-6.09	3.37	-0.19	1.14	-2.04
7125	0.87	-5.46	3.66	-0.43	3.64	-0.51

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

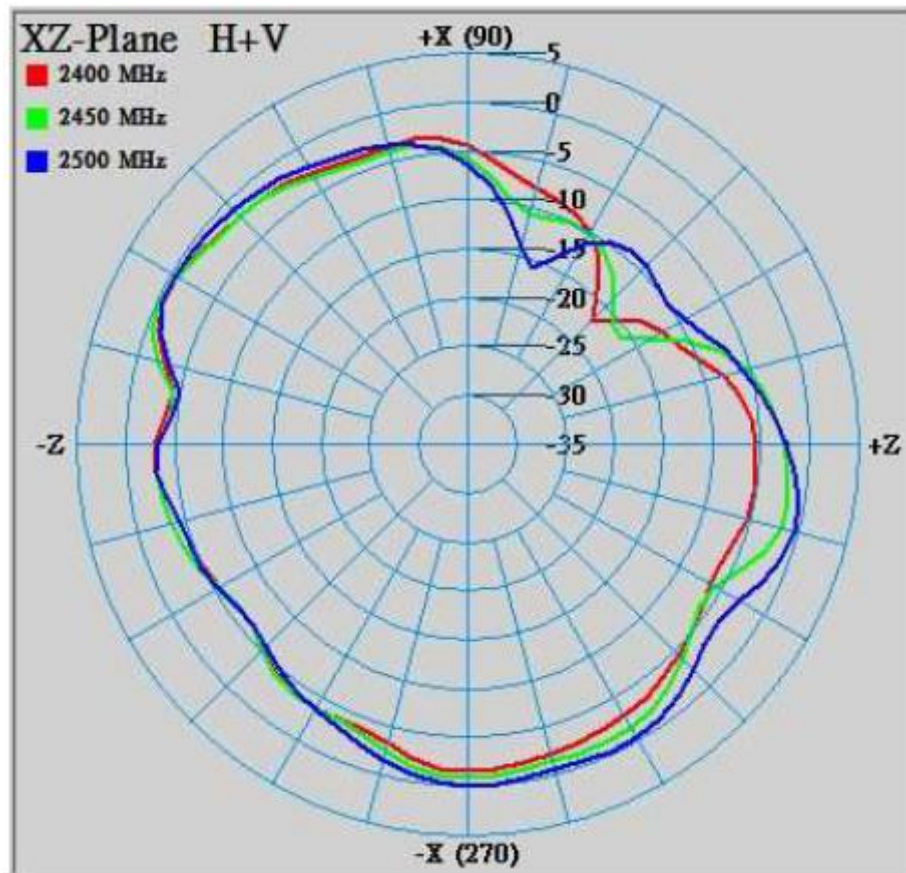
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TITLE : RFPCA573205SBLB301

DOCUMENT NO.

ENS070030530-000803600015

SPEC REV.
A0

ANT2_2G**X-Z Plane****Phi=0.00deg****Gain . dBi**

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A

**INPAQ TECHNOLOGY CO., LTD.****SCALE : N/A****UNIT : mm****DRAWN BY : 劉采璇****CHECKED BY : 詹惠雯****DESIGNED BY : 黃瑞郎****APPROVED BY : 陳振榮**

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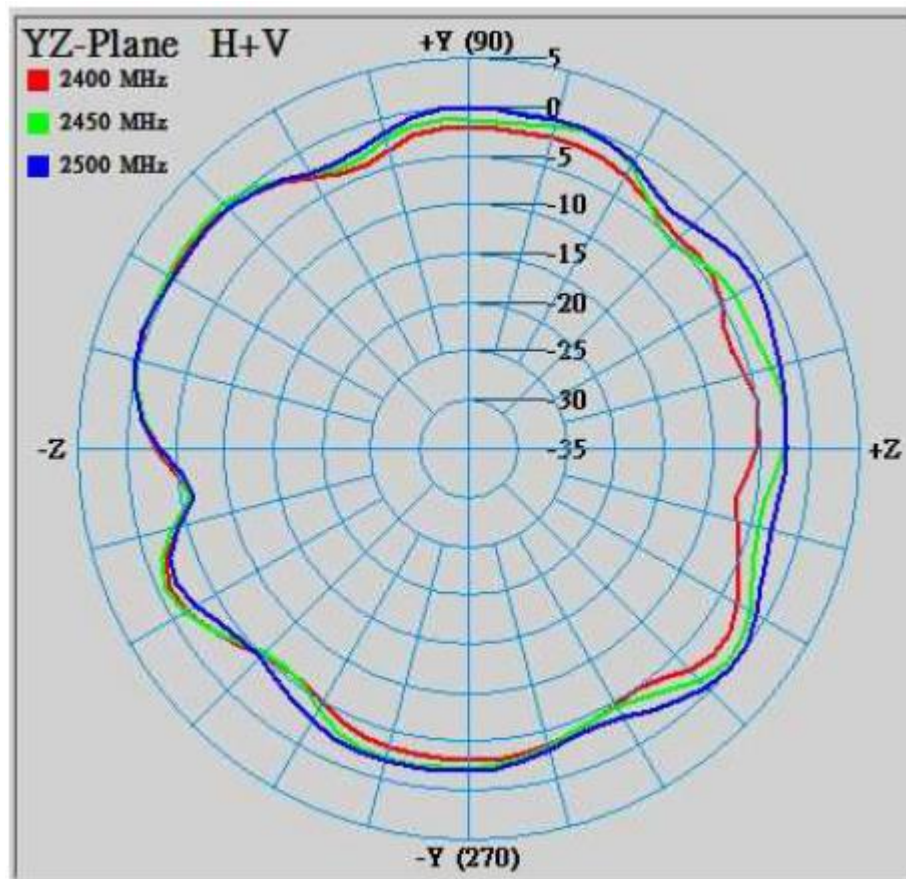
ENS070030530-000803600015

SPEC	REV.
	A0

Y-Z Plane

Phi=90.00deg

Gain . dBi



UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

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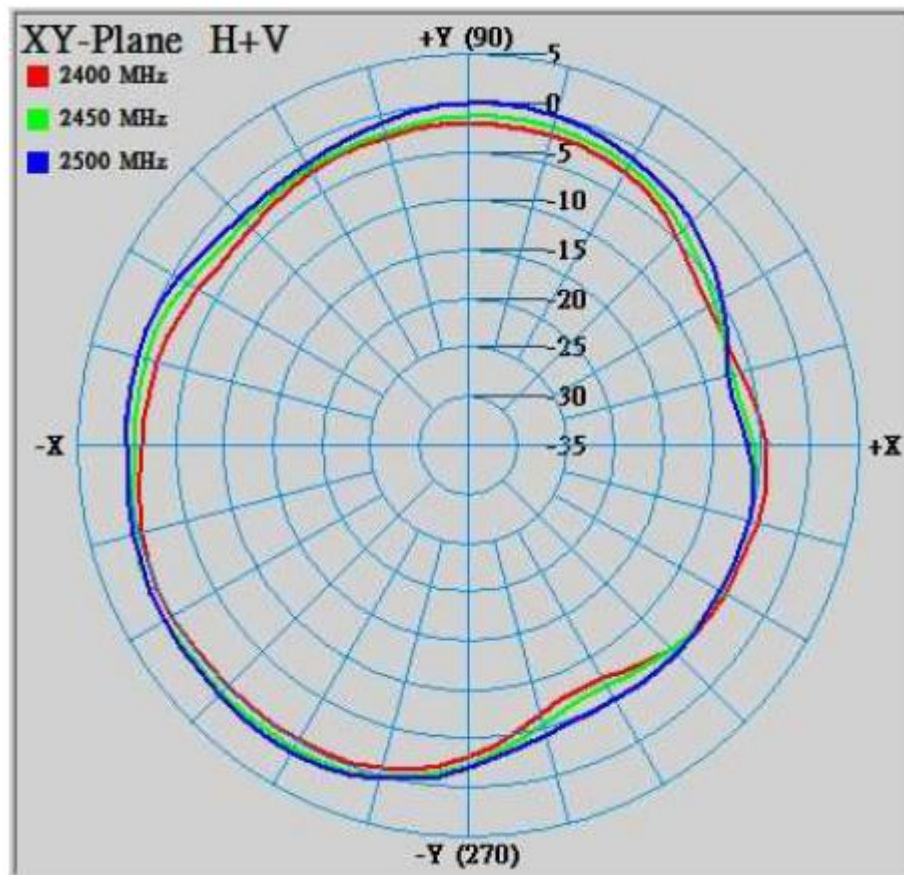
ENS070030530-000803600015

SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dBi



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-0.50	-4.25	0.39	-2.98	0.10	-2.73
2450	-0.25	-3.70	0.69	-2.20	0.89	-2.07
2500	-0.11	-3.07	0.44	-1.73	1.28	-1.46

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

CHECKED BY : 詹惠雯

DESIGNED BY : 黃瑞郎

APPROVED BY : 陳振榮

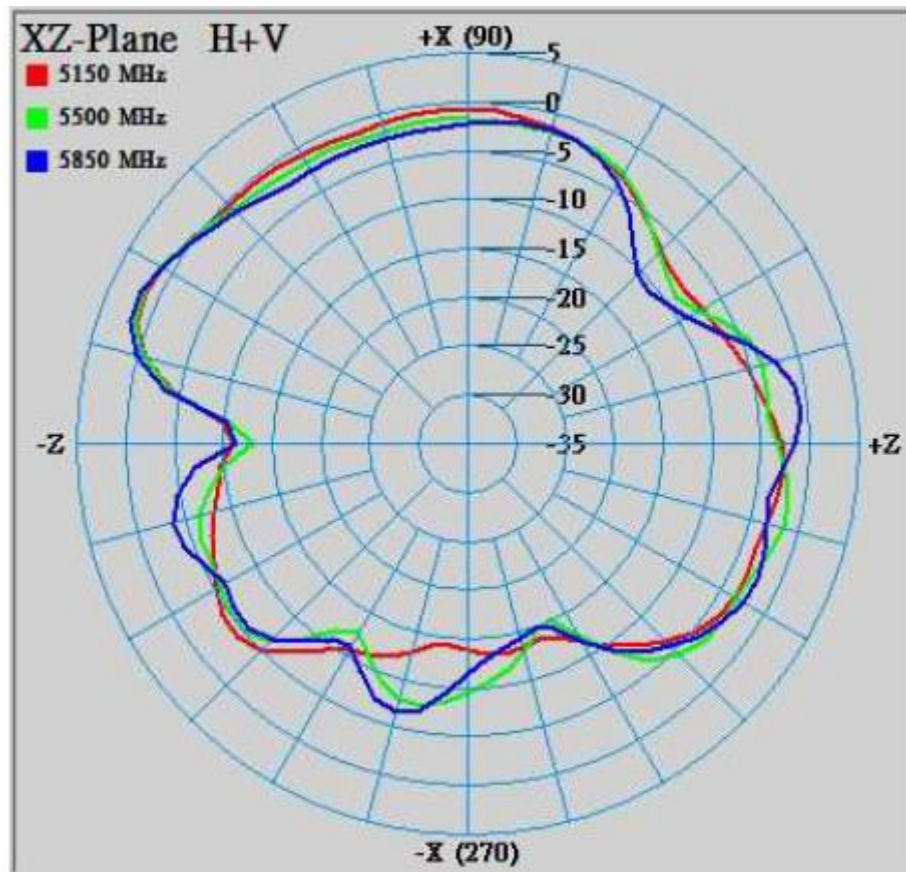
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TITLE : RFPCA573205SBLB301

DOCUMENT
NO.

ENS070030530-000803600015

SPEC REV.
A0

ANT2_5G**X-Z Plane****Phi=0.00deg****Gain . dBi**

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X = N/A X.X = N/A X.XX = N/A
 ANGLES = N/A HOLEDIA = N/A

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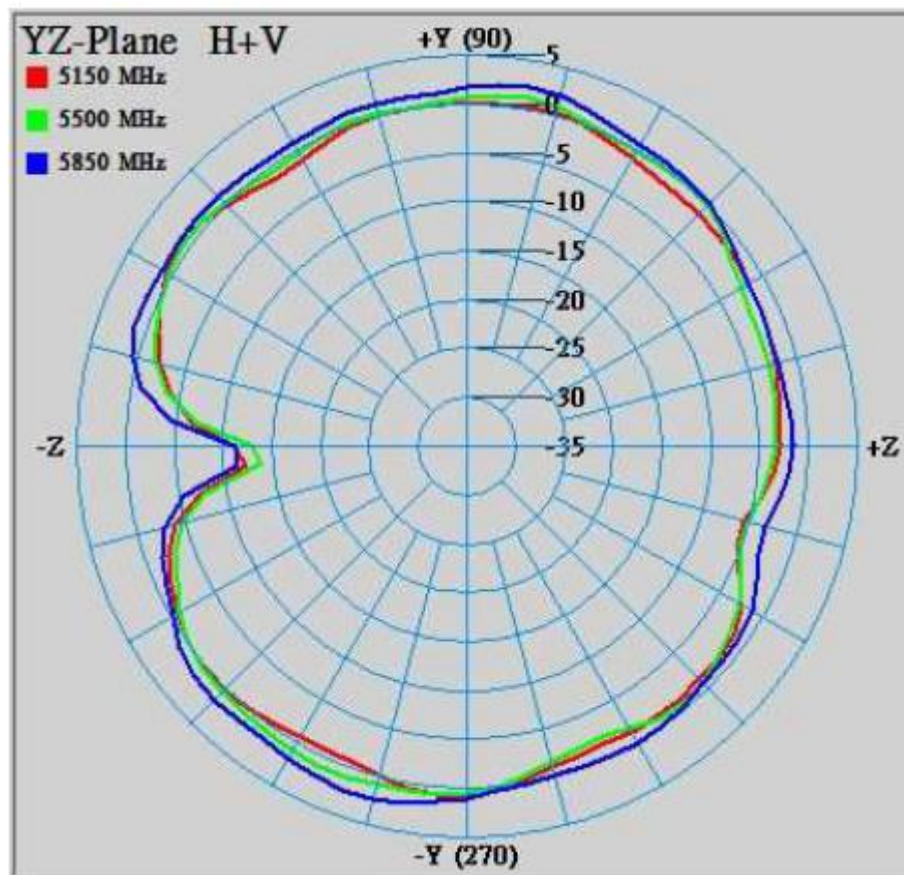
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SPEC REV.
A0

Y-Z Plane

Phi=90.00deg

Gain . dBi



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 劉采璇

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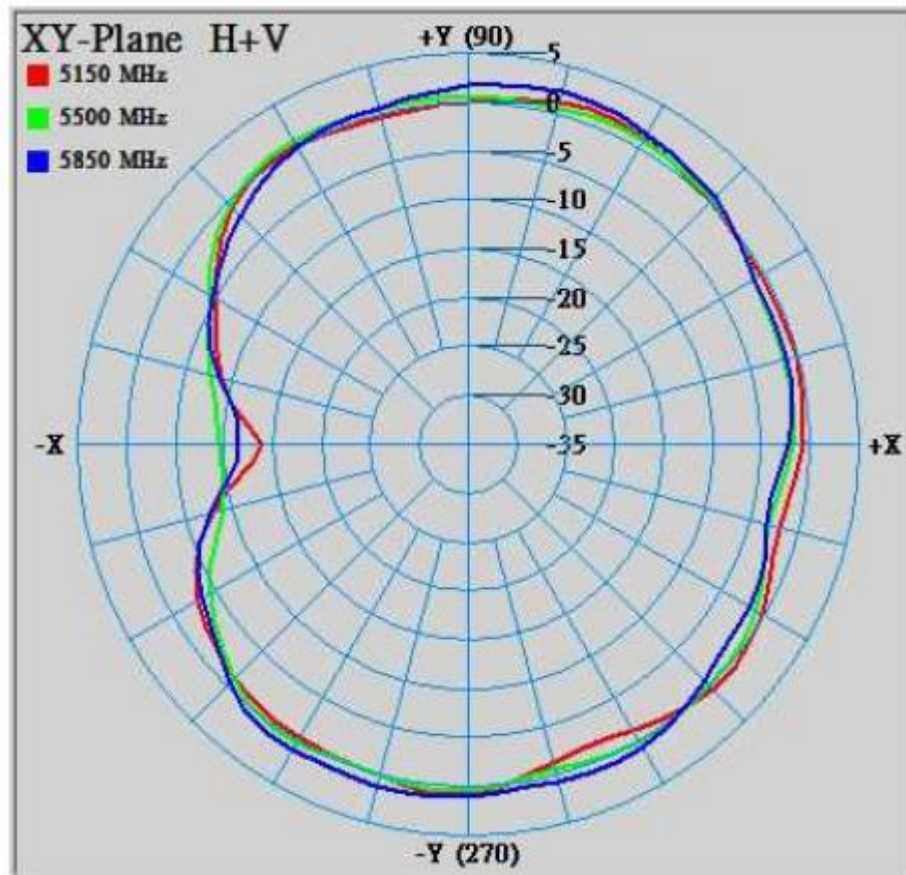
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dBi



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	1.46	-3.80	0.89	-1.19	1.46	-0.98
5500	1.63	-3.81	1.24	-0.94	0.93	-0.99
5850	1.90	-3.84	2.47	0.17	2.28	-0.62

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

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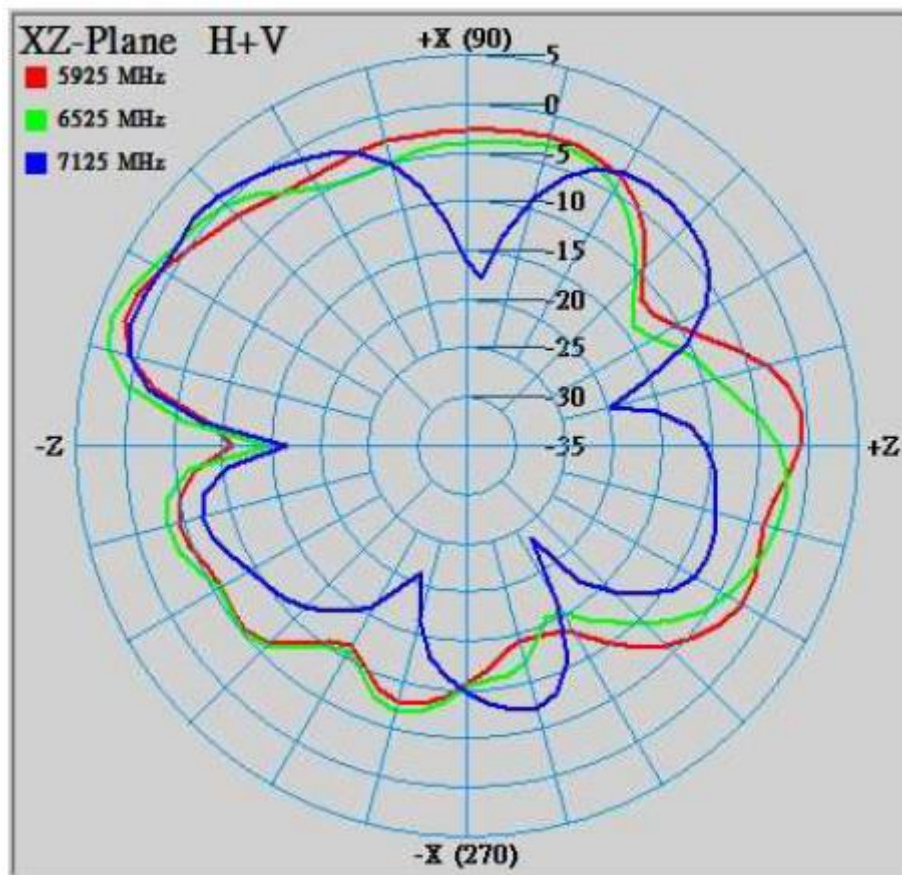
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SPEC REV.
A0

ANT2_6G**X-Z Plane****Phi=0.00deg****Gain . dBi**

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A

**INPAQ TECHNOLOGY CO., LTD.****SCALE : N/A****UNIT : mm****DRAWN BY : 劉采璇****CHECKED BY : 詹惠雯****DESIGNED BY : 黃瑞郎****APPROVED BY : 陳振榮**

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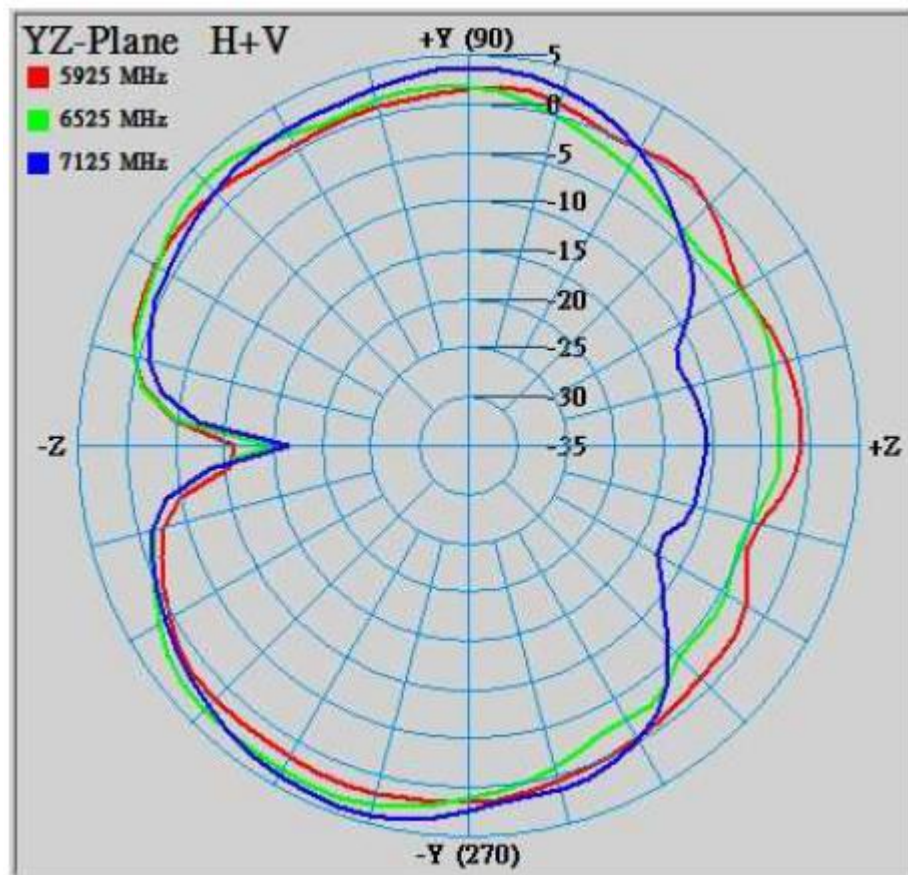
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**SPEC REV.
A0**

Y-Z Plane

Phi=90.00deg

Gain . dBi



UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



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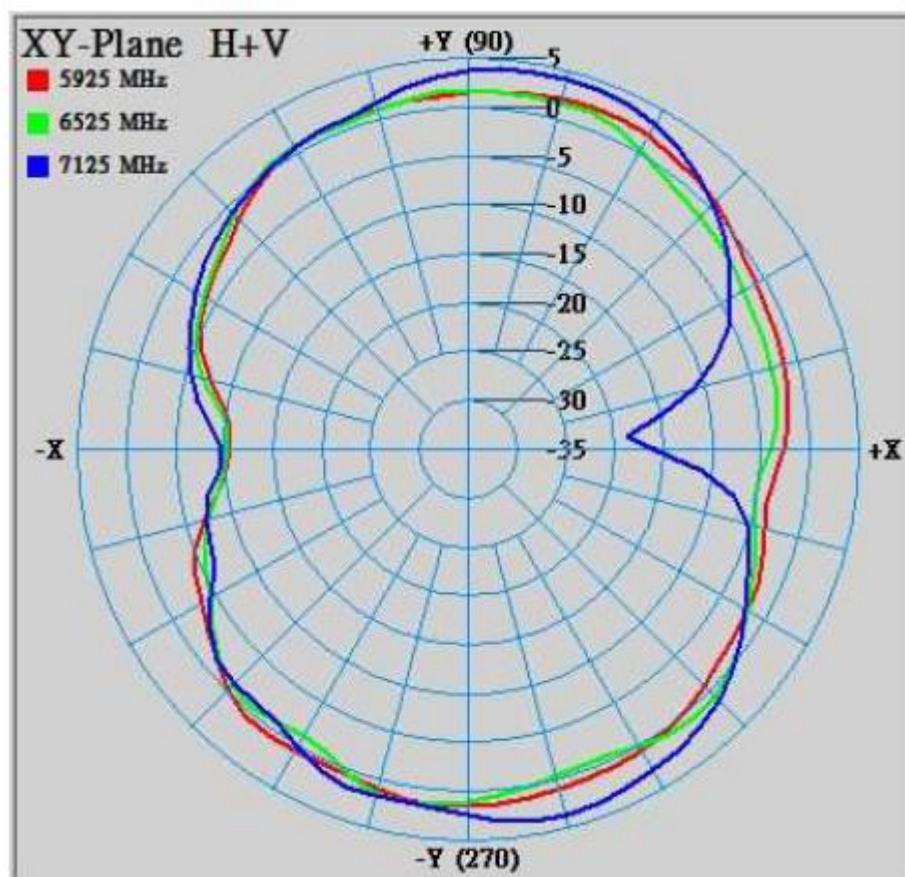
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SPEC REV.
A0

X-Y Plane

Theta=90.00deg

Gain . dBi



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5925	2.299	-3.911	2.032	0.126	2.272	-0.547
6525	3.61	-3.938	3.353	0.131	1.719	-1.033
7125	1.169	-5.545	3.84	-0.02	3.83	-0.221

UNLESS OTHER SPECIFIED TOLERANCES ON :
X = N/A X.X = N/A X.XX = N/A
ANGLES = N/A HOLEDIA = N/A



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